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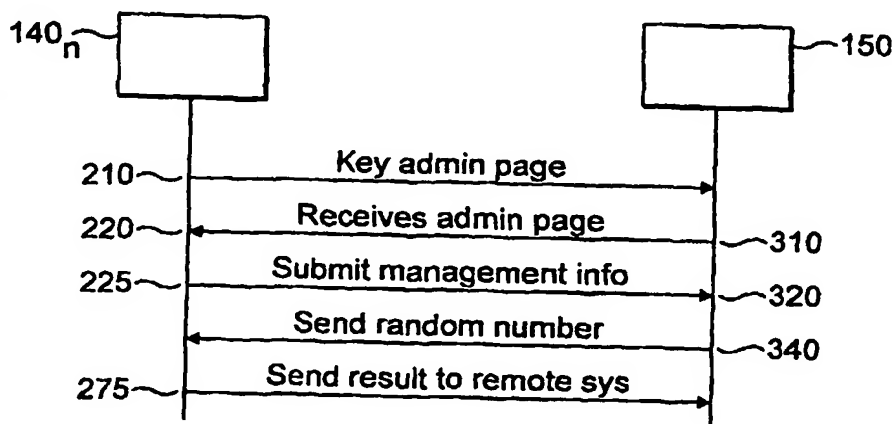
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(54) Title: **SECURE WEB BROWSER BASED SYSTEM ADMINISTRATION FOR EMBEDDED PLATFORMS**



(57) Abstract: The invention provides a method for a web browser based remote administration system to maintain its security by utilizing an ActiveX control or a plug-in, without relying on HTTPS protection to transact management information. The invention does not burden the embedded system and thus is ideally suited for the remote administration of embedded systems. The invention provides a method to calculate a security code base upon identical algorithms in the administrative system having the browser and the embedded system. When the

browser-based administrator submits the management information, an operator packages the control information as a string and invokes the security function in the plug-in with the string as a parameter. After the security function returns the result, the operator sends the form data together with a coded digest to the remote system. The digest may be embedded in the form data, for example, as a hidden field.

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/07411

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : G06F 15/16  
US CL : 709/228

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
U.S. : 709/228

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
EAST, Terms searched: Hash function, MD5, CHAP random number, password, WLAN

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X,P	US 2003/0235305 A1 (HSU) 25 December 2003 (25.12.2003), page 3, paragraphs [0041], [0043], [0044], page 5, paragraphs [0067]- [0079]].	1-23

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

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